=> file reg
COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE TOTAL ENTRY SESSION 0.21 0.21

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STRUCTURE FILE UPDATES: 28 DEC 2005 HIGHEST RN 870751-96-5 DICTIONARY FILE UPDATES: 28 DEC 2005 HIGHEST RN 870751-96-5

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

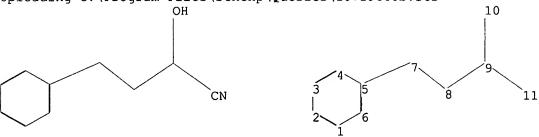
Please note that search-term pricing does apply when conducting SmartSELECT searches.

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Program Files\Stnexp\Queries\10719660b.str



chain nodes :
7 8 9 10 11
ring nodes :
1 2 3 4 5 6
chain bonds :
5-7 7-8 8-9 9-10 9-11
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :

9-10

exact bonds :

5-7 7-8 8-9 9-11

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

isolated ring systems :

containing 1 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS 11:CLASS

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR

Structure attributes must be viewed using STN Express query preparation.

=> s 11

SAMPLE SEARCH INITIATED 15:13:22 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 108 TO ITERATE

100.0% PROCESSED 108 ITERATIONS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 1537 TO 2783

PROJECTED ANSWERS: 8 TO 329

L2 8 SEA SSS SAM L1

=> s 11 full

FULL SEARCH INITIATED 15:13:25 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 2015 TO ITERATE

100.0% PROCESSED 2015 ITERATIONS 152 ANSWERS

SEARCH TIME: 00.00.01

L3 152 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS SINCE FILE TOTAL

ENTRY SESSION

8 ANSWERS

FULL ESTIMATED COST 161.33 161.54

FILE 'CAPLUS' ENTERED AT 15:13:27 ON 29 DEC 2005 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 29 Dec 2005 VOL 144 ISS 1 FILE LAST UPDATED: 28 Dec 2005 (20051228/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

http://www.cas.org/infopolicy.html

=> s 13 L4 205 L3

=> file reg
COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 0.45 161.99

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 15:13:39 ON 29 DEC 2005
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STRUCTURE FILE UPDATES: 28 DEC 2005 HIGHEST RN 870751-96-5 DICTIONARY FILE UPDATES: 28 DEC 2005 HIGHEST RN 870751-96-5

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of

experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>

chain nodes : 7 8 9 10 11 ring nodes : 1 2 3 4 5 chain bonds : 5-7 7-8 8-9 9-10 9-11 ring bonds : 1-2 1-6 2-3 3-4 4-5 5-6 exact/norm bonds : 9-10 exact bonds : 5-7 7-8 8-9 9-11 normalized bonds : 1-2 1-6 2-3 3-4 4-5 isolated ring systems : containing 1 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS 11:CLASS

L5 STRUCTURE UPLOADED

=> d L5 HAS NO ANSWERS L5 STR

Structure attributes must be viewed using STN Express query preparation.

=> s 15 SAMPLE SEARCH INITIATED 15:14:14 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 108 TO ITERATE

100.0% PROCESSED 108 ITERATIONS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 1537 TO 2783
PROJECTED ANSWERS: 0 TO 0

L6 0 SEA SSS SAM L5

=> s 15 full FULL SEARCH INITIATED 15:14:17 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 2015 TO ITERATE

100.0% PROCESSED 2015 ITERATIONS 7 ANSWERS SEARCH TIME: 00.00.01

0 ANSWERS

L7 7 SEA SSS FUL L5

=> file caplus
COST IN U.S. DOLLARS

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 161.33 323.32

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FILE COVERS 1907 - 29 Dec 2005 VOL 144 ISS 1 FILE LAST UPDATED: 28 Dec 2005 (20051228/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

http://www.cas.org/infopolicy.html

=> s 17

L8 76 L7

=> s 17/p

L9 58 L7/P

=> s 19 and ester 570950 ESTER 425597 ESTERS 797525 ESTER (ESTER OR ESTERS)

L10 9 L9 AND ESTER

=> d ibib abs hitstr tot

```
L10 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:509058 CAPLUS
DOCUMENT NUMBER: 139:213884
```

DOCUMENT NUMBER:

Cyanobenzoylation and Hydrocyanation of Aldehydes with

Benzoyl Cyanide Using No Catalyst Matahiki, Tautomu: Ohba, Sayoko; Oriyama, Takeahi Department of Environmental Sciences, Faculty of Stience, Ibaraki University, Mito, 310-8512, Japan Organic Letters (2003), 5(15), 2679-2681 CODEN: ORLEF7; ISSN: 1523-7060 American Chemical Society Journal AUTHOR (S): CORPORATE SOURCE: SOURCE:

PUBLISHER:

DOCUMENT TYPE: LANGUAGE: OTHER SOURCE (S):

MENT TYPE: Journal UAGE: English R SOURCE(s): English R SOURCE(s): CASREACT 139:213884

In the presence of MS 44 in DMSO, componenzoylation of various aldehydes RCHO (R = Me3C, Ph, cyclohexyl, n-hexyl, 4-BrC6H4, 2-naphthyl, etc.) with benzoyl cyanide proceeded very smoothly to give the corresponding cyanohydrin benzoates PhCOZCHR(CN) in high to excellent yields (81-978) without an acid or a base catalyst. On the other hand, reaction of these aldehydes with benzoyl cyanide in DMSO-H2O also irred

red readily to afford the corresponding free cyanohydrins RCH(OH)CN exclusively. 53279-92-08P

IT

RI: SPN (Synthetic preparation); PREP (Preparation)
(preparation of cyanohydrins and cyano esters via hydrocyanation or cyanoacylation of aldehydes with various cyanating reagents)
53279-92-8 CAPLUS

Benzenebutanenitrile, a-hydroxy- (9CI) (CA INDEX NAME)

ОН NC+ CH+ CH2+ CH2+ Ph

REFERENCE COUNT:

THERE ARE 22 CITED REFERENCES AVAILABLE FOR RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

ANSWER 2 OF 9 CAPLUS COPYRIGHT 2005 ACS on STN (Continued) and purified via silica gel column chromatog. to provide hydroxyacetamide IV as colorless powder in 94% yield. Approx. 75 specific examples of I were prepd. The invention is proposed to be useful for the prodn. of statine analogs. The invention process gives products similar to the Passerini reaction, but uses amines instead of isocyanides, and also

shigher yields.
53279-92-8F
RL: BYP (Byproduct); PREP (Preparation)
(byproduct; preparation of α-hydroxy carbonyl derivs. and related compds. by condensation of carbonyl compds.,
(silyloxy)propanedinitriles, and amines)
5279-9-2-8 CAPLUS
Benzenebutanenitrile, α-hydroxy- (9CI) (CA INDEX NAME)

NC-CH-CH2-CH2-Ph

THERE ARE 28 CITED REFERENCES AVAILABLE FOR REFERENCE COUNT: THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 2 OF 9 CAPIUS COPYRIGHT 2005 ACS ON STN
ACCESSION NUMBER: 2002:444539 CAPIUS
DOCUMENT NUMBER: 137:33079
TITLE: Process for Process 137:33079

Process for preparation of a-hydroxy amides and related a-hydroxy carbonyl compounds by, e.g., condensation of carbonyl compounds, (silyloxy)prepanedinitriles, and amines Nemoto, Hisae
Eisai Co., Ltd., Japan
U.S., 34 pp
CODEN: USXXAM
PARENT

INVENTOR (S): PATENT ASSIGNEE (S):

SOURCE:

DOCUMENT TYPE: Patent LANGUAGE: English FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE US 6403818 PRIORITY APPLN. INFO.: US 2001-794140 US 2000-185399P В1 20020611 20010228 P 20000228

OTHER SOURCE(S): CASREACT 137:33079; MARPAT 137:33079

A novel process is disclosed for the one-pot preparation of α -hydroxy carbonyl compds. (mostly α -hydroxy amides) of formula I and their derivs. via the condensation of II and III in the presence of R3-YH (wherein: Y = 0, S, NR6 (R6 = H, OH, elkyl, elkoxy, cycloalkyl, alkenyl, alkynyl, or (un)substituted 5- to 12-membered heteroaryl group, etc.);

R2 independently = H, alkyl, alkoxy, cycloalkyl, bicycloalkyl, alkenyl, alkynyl, heteroaryl or (un)substituted 5- to 12-membered heteroaryl

alkynyl, heteroaryl or (un)substituteu o- to la manuscripture group,
etc.; R3 = H, OH, alkyl, alkoxy, cycloalkyl, alkenyl, alkynyl, aryl,
(un)substituted 5 to 12-memberd heteroaryl group, etc.; R4 = H,
substituted silyl protecting group (preferably -SiMe3, -SiMe2tBu or
SiPh2tBu), alkanoyl, alkenoyl, alkynoylaryloyl, heteroaryloyl, etc.; R5 substituted silyl protecting group (preferably -THS, -TBDMS or -TBDPS),
alkanoyl, alkenoyl, alkynoyl, aryloyl, heteroaryloyl, etc.]. A key
intermediate in the proposed process is the corresponding acyl cyanide,
generated in situ from condensation of II and III. For example, to a
stirred solution of 4-methylbenzaldehyde (1.0 mmol) and dinitrile III
(R4 =

tert-butyldimethylsilyl, 1.2 mmol) in acetonitrile (3 mL) at 0° was added n-butylamine (1.1 mmol) in one portion. After 5 min, a solution of tetrabutylammonium fluoride in THF (1.5 mmol) was added dropwise and the reaction stirred at 0° for an addnl. 20 min. The solution was concentrated

L10 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1998:493698 CAPLUS
DOCUMENT NUMBER: 129:133261
Enzymic processes for preparing (S)-cyanohydrins
INVENTOR(S): Kirchner, Gerald; Wirth, Irma: Werenka, Christian;
Griengl, Herfried; Schmidt, Michael
SOURCE: DEN Chemie Linz G.m.b.H., Austria; Kirchner, Gerald;
Wirth, Irma: Werenka, Christian; Griengl, Herfried;
Schmidt, Michael
PCT Int. Appl., 38 pp.
CODEM: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: PANILY ACC. NUM. COUNT: 1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	TENT															ATE	
WO	WO 9830711				A1 19980716			WO 1997-EP2692				19970526					
	W:	AL,	AU,	BB,	BG,	BR,	CA,	CN,	CZ,	EE,	GE,	HU,	IL,	IS,	JP,	KP,	KR,
		LK.	LR.	LT.	LV.	MG.	MK,	MN.	MX.	NO.	NZ.	PL.	RO.	SG.	SI.	SK.	TR.
							AM,										
	PW:	GH,															CB.
							NL,										
					SN,			,	~-,	,	,	٠.,	٠٠,	~~,	٠,	٠.,	0.11
D.T.	9700						2000	0315		рт 1	997-	41			1	9970	113
	4069						2000					••			-	,,,,	
	2277									CD 1	007_	2277	016		٠,	0070	526
	9731																
EP	9515	61			A1		1999	1027		EP 1	997-	9270	41		1	9970	526
EP	9515	61			B1		2001	8080									
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	IT,	LI,	NL,	ΙE				
AT	2040	23	•		E		2001	0815		AT 1	997-	9270	41		1	9970	526
JP	2001	5136	25		T2		2001	0904		JP 1	998-	5304	86		1	9970	526
ES	2161	466			T3		2001	1201		ES 1	997-	9270	41		1	9970	526
US	6337	196			В1		2002	0108		US 1	999-	3317	61		1	9990	625
PRIORIT	Y APE	LN.	INFO	.:										i			
									1	WO 1	997-	EP26	92	,	w 1	9970	526

OTHER SOURCE(s): MARPAT 129:135261

AB The invention concerns an enantioselective process for preparing the (S)-enantiomer of an optically active cyanohydrin by reacting an aidehyde or ketone with a cyanide group donor. According to this process, the aldehyde or ketone is reacted with a cyanide group donor in an organic diluent in the presence of a recombinant (S)-hydroxynitrile lyase from Hevea brasiliensis, the resultant (S)-cyanohydrin being isolated from the reaction mixture

Heves brasiliensis, the resultant (S)-cyanohydrin being isolated from the reaction mixture
117213-74-89, (S)-(-)-2-Hydroxy-4-phenylbutanenitrile
RI: BMF (Bioindustrial manufacture); BPN (Biosynthetic preparation); PRP
(Properties); PUR (Purification or recovery); RCT (Reactant); BIOL
(Biological study); PREP (Preparation); RACT (Reactant or reagent)
(enzymic processes for preparing (S)-cyanohydrins)
117213-74-8 CAPLUS
Benzenebutanenitrile, α-hydroxy-, (αS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

L10 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

REFERENCE COUNT

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

L10 ANSWER 4 OF 9
ACCESSION NUMBER: 1994:482105 CAPLUS
DOCUMENT NUMBER: 121:82105
TITLE: Asymmetric carbon-carbon bond forming reactions
catalyzed by chiral Schiff base-titanium alkoxide
complexes Hayashi, Masahiko; Inque, Tetsuya; Mivamoto. AUTHOR(S): Yasunori; Oquni, Nobuki
ORATE SOURCE: Fac. Sci., Yamaquchi Univ., Yamaquchi, 753, Japan
CE: Tetrahedron (1994), 50(15), 4385-98
CODEN: TETRAB: ISSN: 0040-4020
MENT TYPE: Journal
UAGE: English
R SOURCE(S): CASREACT 121:82105
The enantioselective addition of trimethylsilyl cyanide to a variety of aldehydes proceeded by the aid of a catalyst prepared in situ from nium CORPORATE SOURCE: DOCUMENT TYPE: LANGUAGE: OTHER SOURCE(S): aldehydes proceeded by the aid of a catalyst prepared in situ from titanium tetraisopropoxide and chiral Schiff bases and gave the corresponding cyanohydrins in high optical yield (up to 96% e.e.). A remarkable rate enhancement was brought about by the addition of the Schiff base to the titanium alkoxide mediated silylcyanation of aldehydes. This catalyst system also promoted the highly enantioselective reaction of diketene with with aldehydes, which led to the formation of optically active 5-hydroxy-3-oxo esters. 120999-41-99 IT 12099y-41-99
RL: PREP (Perparation)
(asym. synthesis of)
120999-41-9 CAPLUS
Benzenebutanenitrile, a-hydroxy-, (aR)- (9CI) (CA INDEX NAME) Absolute stereochemistry.

L10 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 1992:59951 CAPLUS DOCUMENT NUMBER: 116:59951
TITLE: Enantioselevtive synthesis of

N-[(S)-ethoxycarbonyl-3-

phenylpropyl)-L-alanyl-L-proline from chiral synthon prepared enzymatically; a practical method for large-scale synthesis Taeng, Tsung Chin; Duo, Tsai Hui; Wang, Yi Fong Sch. Pharm., Kaohsiung Med. Coll., Kaohsiung, 80708,

AUTHOR (S): CORPORATE SOURCE: Teeng, Islung Chan; DuG, 18a1 ndi; wang, 11 rong Sch. Pharm., Kaohsiung Med. Coll., Kaohsiung, 80 Taiwan Journal of the Chinese Chemical Society (Taipei, Taiwan) (1991), 38(5), 487-90 CODEN: JCCTAC; ISSN: 0009-4536 Journal

SOURCE:

DOCUMENT TYPE: LANGUAGE: OTHER SOURCE(S): English CASREACT 116:59951

F3CSO3 CO2Et CO2Et II ala-Pro-OH I Ph

The title compound (I) was prepared by treating H-Ala-Pro-OCMe3 with

(±)-III via lipase-catalyzed acetylation.
120999-41-5P
RL: SPN (5)ynthetic preparation); PREP (Preparation)
(preparation and O-tetrahydropyranylation of)
120999-41-9 CAPUS
Benzenebutanenitrile, a-hydroxy-, (aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry

L10 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2005 ACS ON STN
ACCESSION NUMBER: 1991:120946 CAPLUS
DOCUMENT NUMBER: 114:120946
TITLE: Enzymercat-1

LIO ANSWER 6 OF 9 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
1991:120946 CAPLUS
114:120946

Little:
Enzyme-catalyzed reactions. 7. Enantioselective
esterification of racemic cyanohydrins and
enantioselective hydrolysis or transesterification of
cyanohydrin seters by lipases

Effenberger, Franz; Gutterer, Beate; Ziegler, Thomas;
Eckhardt, Elisabeth; Aichholz, Reiner
CORPORATE SOURCE:
Inst. Org. Chem., Univ. Stuttgart,
D-7000/80, Germany
SOURCE:
Liebigs Annalen der Chemie (1991), (1), 47-54
COODN: LACHDL; ISSN: 0170-2041
JOURNAL
TYPE:
LANGUAGE:
German
OTHER SOURCE(S):
CASREACT 114:120946
AB Pure cyanohydrin enantiomers (S)- and (R)-HOCHRCN [R = Pr, Ph, phenethyl,
benzol[1,3]dioxol-3-yl, 3,4-Meo(HO)C6H3) and their O-acyl derive. are
obtained from three different lipase-catalyzed reactions: 1)
enantioselective hydrolysis of aliphatic and aromatic racemic cyanohydrin
esters, ii) enantioselective explation of racemic cyanohydrins
and iii) enantioselective transesterification of esters with
primary alcs. Both the cyanohydrin esters and the free
cyanohydrins (which are prone to racemization) are isolated as
enantiomers

with high optical purity on a preparative scale. Hydrolysis of the
racemic butyrates with candida cylindracea lipase and pseudomonas sp.
lipase, reap., for example, affords (S)-I (R = Pr, Ph) in high yield with
97 and 968 ee, reap. (S)-I (R = Pr) is obtained with the same optical
purity by candids sp. lipase-catalyzed transesterification of PrCO2CHPrCN
with 1-octanol.

IT 12099-41-9 CAPLUS
CN Benzenebutanenitrile, α-hydroxy-, (αR)- (9CI) (CA INDEX NAME)
Absolute stereochemistry.

Absolute stereochemistry.

L10 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2005 ACS ON STN ACCESSION NUMBER: 1989:594247 CAPLUS DOCUMENT NUMBER: 111:194247

TITLE:

111:194247
Lipase-catalyzed irreversible transesterification using enol seters: resolution of cyanohydrins and syntheses of ethyl (R)-2-hydroxy-4-phenylbutyrate and (S)-propranolol Wang, Yi Fong: Chen, Shui Tein: Liu, Kevin K. C.; Wong, Chi Huey
Dep. Chem., Texas A and M Univ., College Station, TX, 77843, USA AUTHOR (S): CORPORATE SOURCE:

77843, USA
Tetrahedron Letters (1989), 30(15), 1917-20
CODEN: TELEAY; ISSN: 0040-4039
JOURNAL
English
CASREACT 111:194247 SOURCE .

DOCUMENT TYPE:

OTHER SOURCE(S):

Racemic hydroxyacetonitriles, (t)-I, (t)-PhCH2CH2CH(OH)CN, and
(t)-PhCH2CH2CH(OH)CN, were resolved by lipoprotein lipsse. (t)-I
gave (+)-I which was sequentially reduced (LiAlH4) and treated with Me2CO
and NaBH4 to give (8)-propranolol.
120999-41-99
RL: RCT (Reactant): SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
 (preparation and hydrolysis of)
120999-41-9 CAPLUS
Benzenebutanenitrile, α-hydroxy-, (αR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L10 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

L10 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 1977:468154 CAPLUS DOCUMENT NUMBER: 87:68154

DOCUMENT NUMBER:

TITLE:

Antioxidant chroman compounds Scott, John William; Parrish, David Richard; Saucy, Gabriel INVENTOR (5):

PATENT ASSIGNEE (S): SOURCE:

webries Hoffmann-La Roche, Inc., USA U.S., 30 pp. Division of U.S. 3,947,473. CODEN: USXXXM Patent

DOCUMENT TYPE: English 5

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4018799	A	19770419	US 1975-637611	19751204
US 3947473	A	19760330	US 1973-417465	19731119
CH 622257	A	19810331	CH 1976-14579	19761119
PRIORITY APPLN. INFO.:			US 1972-317566 A	2 19721222
			00 13/12-31/300	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

US 1973-417465 A3 19731119

A 19731219

CH 1973-17771

GI

Chromanacetic and -carboxylic acids (I; R, R1, R2 = sep. H or alkyl; R3 = H, alkyl, Ph; n = 0 or 1), as racemates or optical anti podes, which showed antioxidant activity by inhibiting development of rancidity in

and oils and are intermediates for the preparation of α -tocopherol, were prepared by standard methods. Thus, trimethylhydroquinone was treated

HC(OMe)3 and CH2:CHCOMe in the presence of H2SO4, the resultant (1)-2-methoxy-2,5,7,8-tetramethyl-6-chromanol was acetylated, the MeO group hydrolyzed, and treated with (MeO)2PCH2CO2Me and NaH to give the Me ester acetate of I (R=R1=R2=R3=R6, n=1) (II), which was then converted to II by alkaline hydrolysis. Chicken fat with added II

not become rancid for 16 days, compared to 3 days with no additive. 53713-16-9P
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of) 53713-16-9 CAPUS Benzenebutanenitrile, 3-(acetyloxy)-a,6-dihydroxy-2,4,5-trimethyl-(9CI) (CA INDEX NAME) IT

L10 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1974:505278 CAPLUS
DOCUMENT NUMBER: 81:105278
TITLE: Chromane derivatives
INVENTOR(S): Saucy, Gabriel: Scott, John William; Parrish, David

Hoffmann-La Roche, F., und Co., A.-G.
Ger. Offen., 80 pp.
CODEN: GWXXEX
Patent
German 5 PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2364141	A1	19740627	DE 1973-2364141	19731221
ZA 7309471	A	19740828	ZA 1973-9471	19731213
CH 603617	Ä	19780831	CH 1973-17771	19731219
CH 605892	A	19781013	CH 1973-17770	19731219
DD 109624	c	19741112	DD 1973-175557	19731220
BE 808942	A1	19740621	BE 1973-139128	19731221
BE 808943	A1	19740621	BE 1973-139129	19731221
NL 7317587	A	19740625	NL 1973-17587	
NL 7317590	А	19740625	NL 1973-17590	19731221
NL 178968	В	19860116		
NL 178968	С	19860616		
JP 49088876	A2	19740824	JP 1973-142526	19731221
JP 49088877	A2	19740824	JP 1973-142527	19731221
JP 59046233	B4	19841110		
FR 2255299	A1	19750718	FR 1973-46001	19731221
HU 168043	P	19760228	HU 1973-HO1637	19731221
ES 421683	A1	19760401	ES 1973-421683	19731221
FR 2284604	A1	19760409	FR 1973-46000	19731221
FR 2284604	B1	19790511		
AT 7310769	A	19760415	AT 1973-10769	19731221
AT 333755	В	19761210		
SU 518135	D	19760615	SU 1973-1978253	19731221
GB 1456827	A	19761124	GB 1973-59296	19731221
GB 1456828	A	19761124	GB 1973-59298	19731221
GB 1456829	A	19761124	GB 1975-22271	19731221
GB 1456830	A	19761124	GB 1975-22272	19731221
CA 1022562	A1	19771213	CA 1973-188762	19731221
SE 406912	С	19790614	SE 1973-17421	19731221
SE 406912	В	19790305		
AU 7364009	A1	19750703	AU 1973-64009	19731228
CH 622257	A	19810331	CH 1976-14579	19761119
JP 59144780	A2	19840818	JP 1984-5854	19840118
JP 60026795	B4	19850625		
PRIORITY APPLN. INFO.:			US 1972-317566 A	19721222
			CH 1973-17771 A	19731219

For diagram(s), see printed CA Issue.

Chromancarboxylates such as I (R = H, Me, Et, R1-R3 = Me; R = Me, R1 = H, R2 = R3 = Me, R1 = R2 = CHMe2, R3 = H, R1 = R3 = H, R2 = CHe3) and chromancetates II (R1 = H, Me) were prepared Thus, sethylhydroquinone

was treated with CH2:CHCOMe and HC(OMe)3 to give 6-hydroxy-2-methoxy-2,5,7,8-tetramethylchroman, which was acetylated, demethylated, and treated with Me3P:CHCOZMe, followed by saponification of the ester group

L10 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
to give II (R1 = Me), which at 0.02% prevented soybean oil from going
rancid in the Schael oven test at 45° for 12 days, compared with 2
days for the control.

IT S3713-16-99
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and hydrolysis of)
SNN 53713-16-9 CAPLUS
CN Benzenebutanenitrile, 3-(acetyloxy)-a,6-dihydroxy-2,4,5-trimethyl(9CI) (CA INDEX NAME)